

09/807007

JC02 Rec'd PCT/PTO 06 APR 2001

PATENT  
2921-0130P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: ZAPHIROPOULOUS, Peter et al.  
Int'l. Appl. No.: PCT/SE99/01784  
Appl. No.: New Group:  
Filed: April 6, 2001 Examiner:  
For: A NOVEL COMPONENT IN THE HEDGEHOG  
SIGNALLING PATHWAY

LETTER

**BOX PATENT APPLICATION**

Assistant Commissioner for Patents  
Washington, D.C. 20231

April 6, 2001

Sir:

The PTO is requested to use the amended sheets/claims attached hereto (which correspond to Article 34 amendments or to claims attached to the International Preliminary Examination Report) during prosecution of the above-identified national phase PCT application.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By *Gerald M. Murphy, Jr.* #36,623  
Gerald M. Murphy, Jr., #28,977

GMM/cqc  
2921-0130P

P.O. Box 747  
Falls Church, VA 22040-0747  
(703) 205-8000

FORM PTO-1390  
(REV. 11-2000)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371

2921-0130P

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

09/807007

INTERNATIONAL APPLICATION NO.

INTERNATIONAL FILING DATE

PCT/SE99/01784

October 6, 1999

PRIORITY DATE CLAIMED

October 6, 1998

TITLE OF INVENTION

A NOVEL COMPONENT IN THE HEDGEHOG SIGNALLING PATHWAY

APPLICANT(S) FOR DO/EO/US

ZAPHIROPOULOS, Peter G.; UNDEN, Anne Birgitte; TOFTGARD, Rume; RAHNAMA, Fahimeh; \*

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39 (1).
4. ☒ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau). WO 00/20037
  - b. ☒ has been transmitted by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is transmitted herewith.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4)
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).
  - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ have been transmitted by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 20. below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98./International Search Report (PCT/ISA/210)
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.
14. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
15. ☐ A substitute specification.
16. ☐ A change of power of attorney and/or address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information:
  - 1.) Sequence listing (9 pages)
  - 2.) 13 Pages of Drawings
  - 3.) PCT Substitute Claims Letter w/ International Preliminary Examination Report (PCT/IPEA/409) and Claims

\*HOLLINGSWORTH, Robert E.

|   |              |  |            |  |  |
|---|--------------|--|------------|--|--|
| U.S. APPLICATION NO (if known, see 37 CFR 1.5)<br><b>097807007</b><br>NEW   |              | INTERNATIONAL APPLICATION NO<br><br>PCT/SE99/01784 |            | ATTORNEY'S DOCKET NUMBER<br><br>2921-0130P |  |
| <b>21. <input checked="" type="checkbox"/> The following fees are submitted:</b><br><b>BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5):</b><br>Neither international preliminary examination fee (37 CFR 1.482)<br>nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO<br>and International Search Report not prepared by the EPO or JPO. .... <b>\$1,000.00</b><br><br>International preliminary examination fee (37 CFR 1.482) not paid to<br>USPTO but International Search Report prepared by the EPO or JPO ..... <b>\$860.00</b><br><br>International preliminary examination fee (37 CFR 1.482) not paid to USPTO<br>but international search fee (37 CFR 1.445(a)(2)) paid to USPTO. .... <b>\$710.00</b><br><br>International preliminary examination fee (37 CFR 1.482) paid to USPTO<br>but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... <b>\$690.00</b><br><br>International preliminary examination fee (37 CFR 1.482) paid to USPTO<br>and all claims satisfied provisions of PCT Article 33(1)-(4). .... <b>\$100.00</b><br><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b> |              |  |            | <b>CALCULATIONS      PTO USE ONLY</b>      |  |
|   |              |  |            | \$   | 1000.00  |
| Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30<br>months from the earliest claimed priority date (37 CFR 1.492(e)).   |              |  |            | \$   | 130.00   |
| CLAIMS  | NUMBER FILED | NUMBER EXTRA                                       | RATE       |  |  |
| Total Claims  | 24 - 20 =    | 4  | X \$18.00  | \$   | 72.00  |
| Independent Claims  | 1 - 3 =      | 0  | X \$80.00  | \$   | 0  |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)      yes  |              |  | + \$270.00 | \$   | 270.00   |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |              |  |            | \$   | 1472.00  |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are<br>reduced by 1/2.   |              |  |            | \$   | 0  |
| <b>SUBTOTAL =</b>   |              |  |            | \$   | 1472.00  |
| Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30<br>months from the earliest claimed priority date (37 CFR 1.492(f)).   |              |  |            | \$   | 0  |
| <b>TOTAL NATIONAL FEE =</b>   |              |  |            | \$   | 1472.00  |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be<br>accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property   |              |  |            | \$   | 0  |
| <b>TOTAL FEES ENCLOSED =</b>  |              |  |            | \$   | 1472.00  |
|   |              |  |            | Amount to be:                              |  |
|   |              |  |            | refunded                                   | \$   |
|   |              |  |            | charged                                    | \$   |
| <p>a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>1472.00</u> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account. No. _____ in the amount of \$ _____ to cover the above fees.<br/>A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any<br/>overpayment to Deposit Account No. <u>02-2448</u>.</p> <p><b>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</b></p> <p>Send all correspondence to:<br/><b>Birch, Stewart, Kolasch &amp; Birch, LLP</b> or Customer No. 2292<br/><b>P.O. Box 747</b><br/><b>Falls Church, VA 22040-0747</b><br/><b>(703)205-8000</b></p> <p><b>Date: April 6, 2001</b></p>   |              |  |            |  |  |
|   |              |  |            | By   | <u>Gerald M. Murphy, Jr.</u> #36,627<br>Gerald M. Murphy, Jr., #28,977 |

/GMM/ja